

Eayrs, Tony

From: Renaud, Rick
Sent: Tuesday, March 18, 2008 4:35 PM
To: Soper, Craig
Cc: Eayrs, Tony
Subject: slip 4 remediation - Ecology costs
Attachments: BFI-AIRECOPY_EXCHANGE_03182008-163146.PDF

I'm not finding the Ecology oversight costs specifically identified in the Slip 4 remediation cost estimate. We will need to find another way to estimate.

I could ask ecology.

Rick Renaud P.E.
King County International Airport
7277 Perimeter Rd. S.
Seattle WA 98108
Rick.Renaud@kingcounty.gov
206-296-7427

From: E-COPY Workstation, KCIA
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To: Renaud, Rick
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KCSlip4 62690
SEA430781

Table 5-3. Estimated Costs for Alternative 2.

Item	Estimated Cost
Land Acquisition and Institutional Control Implementation ^a	\$ 700,000
Mob/Demob/Site Prep	\$ 263,000
Bank Excavation and Disposal	\$ 740,000
Dredging and Disposal	\$ 386,000
Capping	\$ 1,240,000
Outfall Modifications	\$ 130,000
Debris Removal and Disposal	\$ 137,000
Construction Engineering, Management, and QA/QC ^b	\$ 816,000
Washington State Sales Tax	\$ 343,000
Design and Project Management ^c	\$ 716,000
Contingency ^d	\$ 920,000
Long-Term Operation & Maintenance (30-yr Present Worth) ^e	\$ 480,000
Total	\$ 6,900,000

Notes:

^a Cost includes land acquisition and legal/administrative costs for institutional controls.

^b Includes construction engineering and management (6% of direct capital costs); construction quality control activities (by contractor); and construction quality assurance activities such as surveys, confirmation sediment sampling, and water quality monitoring.

^c Includes project management during design and construction (5% of direct capital costs) and estimated cost of removal design.

^d Contingency based on 30% of subtotal direct capital costs.

^e Long-term monitoring costs assume 7 monitoring events over 30 years. Maintenance costs based on one (1) cap repair event affecting up to 15% of the cap area. Present value analysis based on a 5% net discount rate.